

ABSTRACT

An object of the present invention is to provide a light-storing fluorescent spherical powder that exhibits a high emission intensity, emits light for a 5 prolonged time, and has an excellent workability even when it is added to synthetic resin or the like. There is provided a light-storing fluorescent spherical powder that contains an alkaline earth metal aluminate as a main component and a transition metal element such as lanthanoid as an activator, in which the powder comprises a spherical powder. There is further provided a process of 10 manufacturing a light-storing fluorescent spherical powder that includes preparing as a raw material a light-storing fluorescent powder that has been previously synthesized or a light-storing fluorescent precursor powder that has been produced by pre-reaction of a synthetic raw material of a light-storing fluorescent material, and passing the prepared raw material through a region 15 heated to a temperature higher than a melting point of a light-storing fluorescent material, thereby forming the raw material into spherical shape.